

WHAT IS CLAIMED IS:

1. An information communication apparatus comprising:

an information communication unit for transmitting and receiving information through communication;

a vibration notification unit for vibrating to notify the reception of the information; and

a vibration control unit for generating from an audio signal a driving signal synchronously with the audio signal, the vibration control unit for causing the vibration notification unit to vibrate according to the driving signal.

2. The information communication apparatus as claimed in claim 1, further comprising a music reproduction unit for outputting music as the audio signal.

3. The information communication apparatuses as claimed in claim 2 wherein the vibration control unit generates the driving signal based on low frequency components of the audio signal.

4. The information communication apparatus as claimed in claim 2 wherein the music reproduction unit stops music reproduction if the information communication unit receives the information during music reproduction.

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5. The information communication apparatus as claimed in claim 2 wherein the music reproduction unit comprises an incoming status detection unit for detecting start and completion of receiving the information; and

the music reproduction unit stops music reproduction when the incoming status detection unit detects that the information communication unit receives information, and restarts the music reproduction when the incoming status detection unit detects that the information communication unit completes receiving the information, if the information is received during music reproduction.

6. The information communication apparatus as claimed in claim 3, wherein the vibration notification unit comprises a vibration unit for vibrating with a self-resonance frequency; and

wherein the vibration control unit comprises a low pass filter having a passing frequency band for passing the low frequency components including the self-resonance frequency of the vibration unit.

7. The information communication apparatus as claimed in claim 3, wherein the vibration notification unit comprises a vibration unit for vibrating the information

communication apparatus according to the driving signal; and
wherein the vibration control unit comprises a low pass
filter having a passing frequency band for passing the low
frequency components of the audio signal.

8. The information communication apparatus as
claimed in claim 7, wherein the vibration control unit further
comprises an amplifier for amplifying the low frequency
components passing through the low pass filter.

9. The information communication apparatus as
claimed in claim 8, wherein the vibration control unit further
comprises a rectifier for rectifying the low frequency
components output from the amplifier to generate the driving
signal.

10. The information communication apparatus as
claimed in claim 2, wherein the information received by the
information communication unit includes voice communication
data from an external terminal and music data delivered from
an external source.

11. The information communication apparatus as
claimed in claim 10, wherein the music reproduction unit outputs
the music as the audio signal based on the music data delivered

from the external source.

12. The information communication apparatus as claimed in claim 10, further comprising a memory for storing the music data.

13. The information communication apparatus as claimed in claim 12, wherein the music reproduction unit generates and outputs the music as the audio signal based on the music data in the memory.

14. The information communication apparatus as claimed in claim 1, further comprising a speaker for outputting the audio signal.

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T06020-25T00550

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